



Dear readers,

The past year 2006 has been the most successful in the company's history of more than 15 years. And 2007 has begun very satisfyingly for CETA. The sheer number of newly started projects since

the beginning of 2007 clearly shows that the need for professional solutions in leak-measurement technology is still growing in the industrial sector. We are glad to face up to these requirements.

Wishing you a pleasant reading of the new CETA newsletter

Yours sincerely

Günter Groß

Managing Director

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CETA test devices at the Czech trade fair AMPER 2007 in Prague

Our Czech cooperation partner, Cressto s.r.o., will have a stand at AMPER 2007, the 15th international trade fair of electrotechnics and electronics and will also exhibit CETA test devices in addition to their own pressure-measuring devices.



The trade fair, featuring more than 800 exhibitors from over 20 countries, will be held from March 27 to 30, every day from 9 to 17 hrs, on the Prague fairground PVA Letňany, Beranových 667, 199 00 Prague, Czech Republic. You can find more information on the internet site of the AMPER trade fair (www.amper.cz).

CETA technical contribution in QE 3/2007

A practice-oriented technical article by CETA on the subject of "test with compressed air – semi-automatic leak test of ball valves" will be published in the 3/2007 issue of the technical magazine **Quality Engineering**. If you are interested in this article (in German language), we will be glad to send it to you after its publication.



CETA at CONTROL 2007 free admission tickets available

The 21st CONTROL international trade fair for quality assurance will be held for the last time in Sinsheim from May 8 to 11 2007, before moving to Stuttgart in 2008. At this fair, CETA will



present the current program of test devices and will be at your disposal for project discussions. In addition, we will demonstrate a semi-automatic leak test stand. You will find us in hall 1, stand 1104. If you wish to visit us at the CONTROL exhibition, we will be glad to send you a free admission ticket. A quick phone call will be enough (phone number: see below).

CETA data sheets now available in Czech language

In the course of expansion of our international business activities, we are now able to put at your disposal on our homepage data sheets of our test devices in Czech language.

You will find those in the Czech download sector under "www.cetatest.com/daten_cz.php".



CETA inside: Final test of the CETA test devices

Before delivery, the CETA test devices have to undergo substantial tests to check their correct function. After manufacture, the test devices are submitted to an endurance test of at least 1800 cycles and the results are analyzed. The applied testing conditions and admissible tolerance values are specific to the devices. For example, flow testers are checked in this endurance test with connected testing nozzle and the repeatability of the measured volume flows is evaluated. After this first test, the test device is calibrated and a further endurance test of at least 1800 cycles follows. If this test is successful, a documented final test will follow. Here, the measured values are recorded and stored in the electronic device record of the test device. These documented test measurements will also be handed over to the customer (in case of leak detectors, with and without connected test leak). The test includes all different test modes integrated in the device. This documented final test is also performed on devices which are being serviced. In addition, in case of faulty devices, the fault is documented in a detailed customer report. Thanks to this complex test, the customer can be sure to get a functional device.

CETA practical tip: Test of plastic parts

When filling plastic parts, it can happen that these parts expand unequally, depending on material and test pressure. If the plastic housing expands during the test phase due to the applied pressure, there will be no stable measuring conditions and it will be difficult to get a clear pass/fail result. In order to eliminate as far as possible this disturbing effect, it is recommended to use the "prefill" option. This option can be integrated in CETA leak detectors with electronic pressure regulator. During prefilling, the test part is prestressed with the prefilling pressure. The prefilling pressure is slightly higher than the actual test pressure. The prefilling phase is followed by the actual filling phase, during which the test pressure is systematically adjusted. Then follows the stabilization phase and the actual measuring phase. When plastic parts are ultrasound-welded, a lot of small leaks can form because of the welding procedure.

On the other hand, in case of friction welding or hot-plate welding, we will either have a tight part or a grossly leaky part. According to the type of leak, it is recommended to use a test device with high resolution (e.g. differential pressure leak detector of the CETATEST 810 series), or a test device able to safely detect gross leaks (e.g. relative pressure leak detectors of the CETA-TEST 710 series).



When preparing the test stand, it is important to choose polyamide pipes (PA-pipes) for the test circuit, and not thin-walled plastic pipes, which are too flexible. The CETA accessories catalogue (actually available in German language) contains suitable accessories and material for equipment of the test stand. You can find it in the download sector of the CETA homepage (www.cetatest.com/daten_de.php). When using unsuitable piping, volume effects can occur when pressure is applied. This can influence undesirably the leak test of the actual test part. In some applications, the "prefill" option can also be used to reduce the total testing time by means of a kind of "shock-filling".

CETA in-house: Personnel reinforcement

Since 01.01.2007, CETA has two new employees. We are pleased to welcome two "industry insiders" to the CETA team.

Our new head of development has more than 15 years of experience in the development and distribution of leak testers and is also responsible for the support of selected key account customers.

Our new quality management supervisor also has several years of experience in the technical service and production of leak testers.